



PEGASAS

Center of Excellence for General Aviation Safety

The mission of the Center of Excellence of Partnership to Enhance General Aviation Safety, Accessibility and Sustainability (PEGASAS) is to focus on general aviation safety, accessibility, and sustainability by partnering the FAA with a national network of world-class researchers, educators and industry leaders.

Every general aviation (GA) enthusiast knows first-hand many of the challenges – ranging from the familiar frustrations of weather to the new opportunities of NextGen technology. A majority of these issues fall within one of these three key categories: safety, accessibility and sustainability.

Through unique approaches to research, education, and outreach, PEGASAS focuses upon increasing safety by mitigating the risk facing GA pilots, passengers, and property. PEGASAS strives to ensure that GA remains accessible across the spectrum of general aviation, from the light sport aircraft owner to those flying in fully instrumented, fully equipped business jets. Finally, PEGASAS endeavors to expand GA's sustainability in a way that allows the industry to serve the needs of future stakeholders, encompassing environmental, economic, social and educational concerns.

PEGASAS is comprised of world-renowned universities with top-tier aviation programs and highly respected schools of engineering, science and policy. PEGASAS has the unique ability to recruit and engage students and faculty with those who are top in their respective core fields with interests applicable to broad aviation topics. Three of the six core members own and operate their own airports: Purdue, Ohio State, Texas A&M. Other PEGASAS members have well established relationships with their community airports and maintain facilities and aircraft fleets at those airports.

Established: October 2012

Research Areas

1. Flight Safety
2. Communication, Navigation, Surveillance
3. Human Factors
4. Weather
5. Airport Technology
6. Propulsion and Structures
7. Continued Airworthiness
8. System Safety Management
9. Other Research Areas

Sponsor:

Airport and Aircraft Safety Research & Development Division

<http://www.pegasas.aero>



Core University Partners

- Purdue University
- The Ohio State University
- Georgia Institute of Technology
- Florida Institute of Technology
- Iowa State University
- Texas A&M University

University Affiliates

Arizona State University; Florida AMU; Kent State University; North Carolina A&T; Southern Illinois University, Carbondale; Western Michigan University; Tufts University; University of Minnesota, Duluth; Hampton; Oklahoma State

Industry, Professional, and Community Affiliates

PEGASAS has established an extended network of state and local general aviation-related organizations and industry affiliates which extend from local to multi-national in size and presence. They include a representative sample within the

aviation industry's broad spectrum from: suppliers to manufacturers, professional organizations to airports and government agencies. Many of these stakeholders serve on the COE Advisory Board and meet with PEGASAS leadership regularly to provide feedback on research, education and outreach projects.

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PEGASAS Collaborations
Core Integration Universities
Purdue University
Ohio State University
Georgia Institute of Technology
Core Universities
Florida Institute of Technology
Iowa State University
Texas A&M
Affiliate Universities
Arizona State University; Florida AMU; Kent State University; North Carolina A&T; Southern Illinois University, Carbondale; Western Michigan University; Tufts University; University of Minnesota, Duluth; Hampton, Oklahoma State



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The FAA has also established the following Centers of Excellence:

- Unmanned Aircraft Systems (2015-2020)
<http://www.assureuas.org/>
- Alternative Jet Fuels and Environment (2013-2018)
<http://ascent.aero>
- Commercial Space Transportation (2010 - 2020)
<http://www.coe-cst.org>
- Joint Center for Advanced Materials (2004-2015)
<http://www.niar.twsu.edu/coe/cecarn.asp>
<http://depts.washington.edu/amts>
- Cabin Environment and Intermodal Transport Environment (2004-2014)
<http://acer.eng.auburn.edu>
- Aircraft Noise and Aviation Emissions Mitigation (2003-2014)
<http://www.partner.aero>
- General Aviation Research (2001-2013)
<http://www.cgar.org>
- Airworthiness Assurance (1997-2007)
- Operations Research (1996-2008)
<http://www.nextor.org>
- Airport Technology (1995-2012)
<http://www.ceat.uiuc.edu/>
- The Joint Center for Computational Modeling of Aircraft Structures (1992-1996)

